

**NATIONAL TRANSPORTATION SAFETY BOARD
PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT**

This form to be used for reporting civil and public aircraft accidents and incidents

BASIC INFORMATION

Accident/Incident Location

Nearest City/Place: Rural Retreat State: VA.
 ZIP: 24368 Country: U.S.
 Latitude: N36-53.69 Longitude: W084-21.00
(Enter in decimal degrees or degrees:minutes:seconds)

Accident/Incident Date/Time

Date: 4-30-19 Local Time: 6:30 PM
mm/dd/yyyy
 Time Zone: EASTERN

Collision with Other Aircraft: ☐ Midair ☐ On-ground ☐ None

AIRCRAFT INFORMATION

Registration Number: N396 PH
 Manufacturer: Zenith
 Model: CH 701
 Serial Number: 7-5308
 Year of Manufacture: 2007
 Amateur-Built: ☒ Yes ☐ No If Yes: ☒ Kit/Plans ☐ Original Design Make: CH 701

☐ IFR-Equipped and Certified
☐ Commercial Space Flight
☐ Unmanned Aircraft

Maximum Gross Weight: 1,100 lbs
 Weight at Time of Accident/Incident: 1,310 lbs
 Number of Seats: 2 Flight Crew Seats:
 Cabin Crew Seats: Passenger Seats: 1
 Number of Engines: 1

Category of Aircraft

☒ Airplane
☐ Balloon
☐ Blimp/Dirigible
☐ Glider
☐ Gyroplane
☐ Helicopter
☐ Powered Lift
☐ Rocket
☐ Ultralight
☐ Unknown

Type of Airworthiness Certificate
(Check all that apply)

Standard
☐ Normal
☐ Aerobatic
☐ Balloon
☐ Commuter
☐ Transport
☐ Utility
☐ Certificate of Authorization or Waiver (COA)
☐ None

Special
☐ Restricted
☐ Limited
☐ Provisional
☐ Special Flight
☒ Experimental
☐ Special Light-Sport
☐ Experimental Light-Sport
☐ Unknown

Landing Gear
(Check all that apply)

☐ Retractable
☒ Tricycle
☐ Amphibian
☐ Emergency Float
☐ Float
☐ Hull
☐ Tailwheel
☐ High Skid
☐ Skid
☐ Ski
☐ Ski/Wheel
☐ Other Launch/Recovery System
☒ None
☐ Unknown

Engine Type (Select one)

☒ Reciprocating
☐ Turbo Shaft
☐ Turbo Prop
☐ Turbo Jet
☐ Turbo Fan
☐ Electric
☐ Liquid Rocket
☐ Solid Rocket
☐ Hybrid Rocket
☐ None
☐ Unknown

Fuel System Type (Reciprocating)

☒ Carburetor ☐ Fuel-Injected

Engine	Engine Manufacturer	Engine Model/Series	Manufacturer's Serial Number	Date of Mfg. <i>mm/dd/yyyy</i>	Rated Power ☐ Horsepower or ☐ lbs of Thrust	Total Time <i>(hours)</i>	Time Since: Inspection <i>(hours)</i>	Overhaul <i>(hours)</i>
Eng. 1	ROTAX	912 S	5643521	2007	100 hp.	3	3	
Eng. 2								
Eng. 3								
Eng. 4								

Last Inspection Type

☐ 100-Hour ☐ Continuous Airworthiness
☐ AAIP ☐ Conditional Inspection
☐ Annual ☐ Unknown

Date Last Inspection: 4-1-19
mm/dd/yyyy

Airframe Total Time: 3 hrs
 hours measured at *(Select one)*
☒ Last Inspection ☐ Time of Accident/Incident

Type of Maintenance Program (Select one)

☐ Annual
☐ Conditional (Amateur-built only)
☐ Manufacturer's Inspection Program
☐ Other Approved Inspection Program (AAIP)
☒ Continuous Airworthiness
☐ Other, specify: NEW

Description of Fire Extinguishing System

☒ None
☐ Specify:

Propeller 1

☐ Fixed Pitch
☐ Controllable Pitch
☒ Ground Adjustable

Manufacturer: WARP Drive
 Model: 3 BLADE

Propeller 2

☐ Fixed Pitch
☐ Controllable Pitch
☐ Ground Adjustable

Manufacturer:
 Model:

ELT Installed: ☒ Yes ☐ No

If Yes:
 ELT Manufacturer: AMERI-KING
 Model or Part No.: AK-450
 TSO No.: ☒ C91 (121.5 MHz) ☐ C91a (121.5 MHz)
☐ C126 (406 MHz)

Was ELT still mounted in aircraft? ☒ Yes ☐ No

Was ELT still connected to antenna? ☒ Yes ☐ No

Did ELT Activate? ☒ Yes ☐ No

If activated:

Did ELT Aid in Locating Aircraft? ☒ Yes ☐ No

If not activated:

Indicate Reason: ☐ Impact Damage
☐ Fire Damage
☐ Battery Expired/Damaged
☐ Unknown

Additional Equipment (Check all that apply)

☐ ADS-B
☐ Airframe Parachute
☒ Angle of Attack Indicator
☐ Autopilot
☐ Data Recorder
☐ Electronic Flight Bag or Handheld Device
☐ Electronic Multifunction Display
☒ Electronic Primary Flight Display
☒ Handheld GPS
☐ Heads Up Display
☐ Onboard Weather
☒ Satellite Tracking Device
☐ Stall Warning System
☐ Video Recording Device
☐ Other, Specify:

OWNER/OPERATOR INFORMATION**Registered Aircraft Owner**Name: Robert W. Harris + Rebecca B. HarrisCity: SALTvilleState: VA ZIP: 24370Fractional Ownership Aircraft: ☒ Yes ☐ NoCountry: U.S.**Operator of Aircraft**☐ Same As Registered OwnerName: William Baldwin☐ Same Address as Registered OwnerCity: ELK Creek

Doing Business As: _____

State: VA ZIP: 24326

Air Carrier/Operator Designator (4 Character Code): _____

Country: U.S.**Operating Certificates Held**

(Check all that apply)

- ☒ None
☐ Flag Carrier Operating Certificate (FAR 121)
☐ Supplemental
☐ Air Cargo
☐ Foreign Air Carriers (FAR 129)
☐ Rotorcraft External Load (FAR 133)
☐ Commuter Air Carrier (FAR 135)
☐ On-Demand Air Taxi (FAR 135)
☐ Commercial Air Tour (FAR 136)
☐ Agricultural Aircraft (FAR 137)
☐ Pilot School (FAR 141)
☐ Certificate of Authorization or Waiver (COA)
☐ Commercial Space Transportation
Experimental Permit
☐ Commercial Space Transportation License
☐ Other Operator of Large Aircraft

Regulation Flight Conducted Under

- ☐ FAR 91 ☐ FAR 129 ☐ FAR 415
☐ FAR 103 ☐ FAR 133 ☐ FAR 431
☐ FAR 121 ☐ FAR 135 ☐ FAR 435
☐ FAR 125 ☐ FAR 137 ☐ FAR 437

- ☐ FAR 91 Special Flight
☐ Non-US, Commercial
☐ Non-US, Non-commercial

☐ Public Aircraft (Select one)

- ☐ Armed Forces
☐ Federal
☐ State
☐ Local

☒ Unknown**Revenue Operation for FAR 121, 125, 129, 135**

(Select one for each group)

- ☐ Scheduled or Commuter ☐ Domestic
☐ Non-Scheduled or Air Taxi ☐ International

- ☐ Passenger
☐ Cargo
☐ Mail Contract Only

Purpose of Flight for FAR 91, 103, 133, 137

(Select one)

- ☐ Aerial Application ☐ Firefighting ☐ Unknown
☐ Aerial Observation ☐ Flight Test
☐ Air Drop ☐ Glider Tow
☐ Air Race/Show ☐ Instructional
☐ Banner Tow ☐ Other Work Use
☐ Business ☒ Personal
☐ Executive/Corporate ☐ Positioning
☐ External Load ☐ Skydiving
☐ Ferry

Revenue Sightseeing Flight☐ Yes ☒ No**Air Medical Flight**☐ Yes ☒ No**AIRPORT INFORMATION (Fill in if accident/incident occurred on approach, landing, takeoff, departure, or within 3 miles of an airport)**Airport Name: MOUNTAIN EmpireDistance From Airport Center: over smAirport Identifier: MKTDirection From Airport: over degrees trueProximity to Airport: ☐ Off Airport/Airstrip ☒ On Airport/Airstrip ☐ N/AAirport Elevation: 2559 ft. msl**Runway Information**Runway ID: 26 (L/R/C) Length: 5250 ft Width: 75 ft**Runway/Landing Surface (Check all that apply)**

- ☒ Asphalt ☐ Grass/Turf ☐ Macadam ☐ Water
☐ Concrete ☐ Gravel ☐ Metal/Wood
☐ Dirt ☐ Ice ☐ Snow ☐ Unknown

Condition of Runway/Landing Surface (Check all that apply)

- ☒ Dry ☐ Snow-Compacted ☐ Water-Calm
☐ Holes ☐ Snow-Crusted ☐ Water-Choppy
☐ Ice Covered ☐ Snow-Dry ☐ Water-Glassy
☐ Rough ☐ Snow-Wet ☐ Wet
☐ Rubber Deposits ☐ Soft
☐ Slush-Covered ☐ Vegetation ☐ Unknown

Approach/Departure Segment (Select one)

- ☐ Taxi ☐ VFR Departure ☐ On Instrument Approach ☐ Downwind ☐ Low Approach
☐ Takeoff ☐ IFR Departure Procedure/Clearance ☒ Landing ☐ Base ☐ Go Around
☐ Initial Climb ☐ Final ☐ Crosswind ☐ Aborted Landing (after touchdown)
☐ Unknown

IFR Approach (Check all that apply)

- ☐ None
☐ ADF/NDB ☐ PAR ☐ MLS ☐ Practice
☐ SDF ☐ Sidestep ☐ LDA ☐ GPS
☐ VOR/TWOR ☐ ILS ☐ ASR
☐ VOR/DME ☐ Localizer Only ☐ Visual
☐ TACAN ☐ LOC-back course ☐ Contact
☐ RNAV ☐ Circling ☐ Unknown

VFR Approach (Check all that apply)

- ☐ None
☐ Traffic Pattern ☐ Stop and Go
☐ Straight-In ☐ Touch and Go
☐ Valley/Terrain Following ☐ Simulated Forced Landing
☐ Go Around ☐ Forced Landing
☒ Full Stop ☐ Precautionary Landing
☐ Unknown

"FLIGHT CREWMEMBER 1" INFORMATION																																																																																																				
"Flight Crewmember 1" Responsibilities at the Time of Accident/Incident ☒ Pilot ☐ Co-Pilot ☐ Student Pilot ☐ Flight Instructor ☐ Check Pilot ☐ Flight Engineer ☐ Other Flight Crew																																																																																																				
"Flight Crewmember 1" was pilot flying ☒ Yes ☐ No																																																																																																				
"Flight Crewmember 1" Identification First Name: <u>William</u> City of Residence: <u>EIK Creek</u> Middle Initial: <u>G.</u> State: <u>VA.</u> ZIP: <u>24326</u> Last Name: <u>Baldwin</u> Country: <u>U.S.</u> Age at time of Accident/Incident: <u>72</u> Date of Birth: <u> -47 </u> mm/dd/yyyy Certificate Number: <u>N/A</u>																																																																																																				
Degree of Injury ☒ None ☐ Fatal ☐ Minor ☐ Unknown ☐ Serious			Seat Occupied ☒ Left ☐ Front ☐ Unknown ☐ Right ☐ Rear ☐ Center ☐ Single			Restraint Type Available ☐ None ☐ Lap only ☒ 3-point ☐ 4-point ☐ 5-point ☐ Unknown Used ☐ None ☐ Lap only ☒ 3-point ☐ 4-point ☐ 5-point ☐ Unknown			Inflatable Restraints ☒ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown																																																																																											
Pilot Certificate(s) (Check all that apply) ☒ None ☐ Flight Instructor ☐ Commercial ☐ US Military ☐ Private ☐ Recreational ☐ Airline Transport ☐ Foreign ☐ Student ☐ Sport ☐ Flight Engineer						Medical Certificate ☒ None ☐ Class 3 ☐ Class 1 ☐ Driver's License (Sport Pilot only) ☐ Class 2 ☐ Unknown																																																																																														
Principal Occupation ☐ Pilot ☒ Other ☐ Unknown		Medical Certificate Validity ☐ Without limitations/waivers ☐ Unknown ☐ With limitations/waivers ☒ N/A ☐ Special Issuance			Date of Last Medical <u>4-24-2003</u> mm/dd/yyyy																																																																																															
Medical Certificate Limitations <u>N/A</u>																																																																																																				
Medical Certificate Special Issuance <u>NONE</u>																																																																																																				
Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks: <u>NONE</u> mm/dd/yyyy				Flight Review Aircraft <u>NONE</u> Make: _____ Model: _____																																																																																																
Airplane Rating(s) (Check all that apply) ☒ None ☐ Single-Engine Land ☐ Single-Engine Sea ☐ Multiengine Land ☐ Multiengine Sea		Other Aircraft Rating(s) (Check all that apply) ☒ None ☐ Airship ☐ Balloon ☐ Glider ☐ Gyroplane ☐ Helicopter ☐ Powered Lift		Instrument Rating(s) (Check all that apply) ☒ None ☐ Airplane ☐ Helicopter ☐ Powered Lift		Instructor Rating(s) (Check all that apply) ☒ None ☐ Airplane Single-Engine ☐ Airplane Multi-Engine ☐ Gyroplane ☐ Powered Lift ☐ Instrument Airplane ☐ Instrument Helicopter ☐ Helicopter ☐ Glider ☐ Sport																																																																																														
Type Ratings <u>N/A</u>						Student Endorsements (Include dates) From <u>2-06-01</u> Till <u>9-17-02</u>																																																																																														
<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2" style="text-align: left; padding: 5px;">Flight Time (Enter appropriate number of hours in each box)</th> <th rowspan="2" style="padding: 5px;">All Aircraft</th> <th rowspan="2" style="padding: 5px;">This Make & Model</th> <th rowspan="2" style="padding: 5px;">Airplane Single Engine</th> <th rowspan="2" style="padding: 5px;">Airplane Multiengine</th> <th rowspan="2" style="padding: 5px;">Night</th> <th colspan="2" style="padding: 5px;">Instrument</th> <th rowspan="2" style="padding: 5px;">Rotorcraft</th> <th rowspan="2" style="padding: 5px;">Glider</th> <th rowspan="2" style="padding: 5px;">Lighter Than Air</th> </tr> <tr> <th style="padding: 5px;">Actual</th> <th style="padding: 5px;">Simulated</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Total Time</td> <td style="padding: 5px;">60 hrs.</td> <td style="padding: 5px;">Cessna 172</td> <td style="padding: 5px;">✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">Pilot in Command (PIC)</td> <td style="padding: 5px;">40 hrs.</td> <td style="padding: 5px;">Cessna 172</td> <td style="padding: 5px;">✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">Time as Instructor</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">This Make/Model</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">Last 90 Days</td> <td style="padding: 5px;">NONE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">Last 30 Days</td> <td style="padding: 5px;">NONE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">Last 24 Hours</td> <td style="padding: 5px;">NONE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>											Flight Time (Enter appropriate number of hours in each box)	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air	Actual	Simulated	Total Time	60 hrs.	Cessna 172	✓								Pilot in Command (PIC)	40 hrs.	Cessna 172	✓								Time as Instructor											This Make/Model											Last 90 Days	NONE										Last 30 Days	NONE										Last 24 Hours	NONE									
Flight Time (Enter appropriate number of hours in each box)	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air																																																																																										
						Actual	Simulated																																																																																													
Total Time	60 hrs.	Cessna 172	✓																																																																																																	
Pilot in Command (PIC)	40 hrs.	Cessna 172	✓																																																																																																	
Time as Instructor																																																																																																				
This Make/Model																																																																																																				
Last 90 Days	NONE																																																																																																			
Last 30 Days	NONE																																																																																																			
Last 24 Hours	NONE																																																																																																			

DAMAGE TO AIRCRAFT AND OTHER PROPERTY

Aircraft Damage

- ☐ None
- ☒ Substantial
- ☐ Minor
- ☐ Destroyed
- ☐ Unknown

Aircraft Fire

- ☒ None
- ☐ In-Flight
- ☐ On-Ground
- ☐ Both Ground and In-Flight
- ☐ Fire at Unknown Time
- ☐ Unknown

Aircraft Explosion

- ☒ None
- ☐ In-Flight
- ☐ On-Ground
- ☐ Both Ground and In-Flight
- ☐ Explosion at Unknown Time
- ☐ Unknown

Description of Damage to Aircraft and Other Property (Use additional sheet if necessary)

NARRATIVE HISTORY OF FLIGHT (Please type or print in ink)

Describe what occurred in chronological order, including circumstances leading to and nature of accident/incident. Describe terrain and include wreckage distribution sketch if pertinent. Attach extra sheets if needed. State departure time and location, services obtained, and intended destination. Provide as much detail as possible.

THIS WAS THE SECOND FLIGHT THAT I HAD TAKEN IN THIS PLANE (Zenith 701). The First time I Flew it WAS AFTER I bought it. It WAS hangered 5 miles south of Chilhowie, VA. At A grass strip. I Flew it From there To Mountain Empire Airport (MKJ) The weather WAS clear with Light gusts. I Flew east At Around 60mph. I WAS App. 30 miles west of MKJ. My ALT. WAS 3,500 MSL. I had Flown About 10 miles when the turbulence started to pick up. I WAS up and down, wings tipping From side to side I had the plane trimmed For level Flight From the start. After A Few minutes the turbulence Let up. Then to my utmost dismay, I WAS pointed "straight up" in the blink of an eye, it NOSED back over AND back level AGAIN About AS FAST. there were steep ridges I WAS Flying over, Lots of gaps between them (Hollows) AND A higher mountain range over From them. ~~The~~ The wind WAS From the southwest over the mountain but it WASN'T A strong wind AT ALL. That plane is "very" wind sensitive. It WAS rocking AND rolling All the way to the Airport. I came in on FINAL (runway 26) it WAS A very Light breeze From the west, just before the ~~FLARE~~ FLARE my Lift WAS gone, the bottom Fell out, I hit pretty hard on that Landing. I had About 200 Flaps Also. The Second AND FINAL Flight WAS in the pattern. I took off to the west, Light breeze, even ~~before~~ before I leveled off the rocking AND rolling started AGAIN, I turned Left crosswind, then Left downwind, Left base, AND FINAL. Before the FLARE the exact same thing, only I WAS A little higher, I came Flat down, it hit very hard AND bounced high enough For me to give it Full throttle in AN attempt to Keep From dropping down AGAIN. It worked, but For only ~~a~~ A Few seconds, when All at once it NOSED down AND to the right AS if I had pushed the stick Full Forward AND to the right. to say the least, I WAS shocked AS to how that could happen. I WAS told that the First person that Flew it said He would never Fly it AGAIN, For He said it did some crazy things. I think maybe it could have A design FLAW that

could be triggered by some kind of turbulence. The upside down stabilizer catches my attention.

RECOMMENDATION (How could this accident/incident have been prevented?)

Operator/Owner Safety Recommendation

By not flying it. Other than that, I don't know!

MECHANICAL MALFUNCTION/FAILURE (If more space is needed, continue on separate sheet)

Was there Mechanical Malfunction/Failure? ☐ Yes ☒ No
(If yes, list the name of the part, manufacturer, part no., serial no., and describe the failure.)

Total Time/Cycles
On Part

____ Hours

____ Cycles

Time Since This Part
Inspected/Overhauled

____ Hours

FUEL & SERVICES INFORMATION

Fuel on Board at Last Takeoff
(Convert from pounds, as necessary)

15

Gallons

Fuel Type

☐ 80/87☐ 100 Low Lead☐ 100/130☐ 115/145☐ Jet A☐ Jet A-1☐ Jet B☐ JP8☒ Automotive☐ Other, specify _____

Other Services, if Any, Prior to Departure

EVACUATION OF AIRCRAFT

Was an emergency evacuation of the aircraft performed? ☐ Yes ☒ No

Method of Exit - Describe how the occupants exited and how many occupants evacuated each location

OTHER AIRCRAFT - COLLISION (If air or ground collision occurred, complete this section for other aircraft)

Aircraft Registration Number

Manufacturer: _____

Model: _____

Damage to Other Aircraft

☐ Destroyed☐ Minor☐ Substantial☐ None

Registered Owner of Other Aircraft

Name: _____

City: _____

State: _____ ZIP: _____

Country: _____

Pilot of Other Aircraft

Name: _____

City: _____

State: _____ ZIP: _____

Country: _____

ADDITIONAL INFORMATION (Please type or print in ink)

Use this space if additional space is needed for any answers.

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Date of this Report

5-28-2019
mm/dd/yyyy

Name of Pilot/Operator: William G. Baldwin

Signature: [REDACTED]

-- or --

☐ Check here to electronically sign this document

If a Person Other than Pilot/Operator is Filing Report

Name: _____

Title: _____

Signature: _____

-- or --

☐ Check here to electronically sign this document

FOR NTSB USE ONLY

NTSB Accident/Incident No.

WPR19TA142

Reviewed by NTSB Regional Office

WPR-AS

Name of Investigator

Josh Cawthra

Date Report Received

5/30/19